

NPIC/P&DS/D/6-1583  
16 September 1966

Declass Review by NGA.

MEMORANDUM FOR: Chairman, Plans and Development Staff Project  
Evaluation Committee

THROUGH: Chief, Development Branch, Plans and Development Staff

SUBJECT: PSF #118 Titled "Vuegraph Maker"

An investigation of the above suggestion was conducted to determine validity and possible solutions to the problem as outlined by the suggestor, [redacted] Publications Division, Room 4N416. In the past there have been several occasions where Publications Division has not been able to fill an immediate request for an 8½" X 10" Viewgraph Reproduction from various size originals. Therefore, the above suggestion appears to be valid. There are no current projects or other projects being considered that would render this suggestion unnecessary. An investigation of rapid access photographic materials (resulting in a positive image from an original reflective copy or transparency) was conducted. To satisfy the viewgraph requirement, materials such as Diazo, Technifax, Kalvar, Bimat, and [redacted] were considered. Kalvar, Diazo, and Technifax were eliminated due to their slow speed and the resulting excessive exposure times for enlargements. Also these materials require high energy ultra violet light sources for maximum film speed. Bimat and [redacted] are both diffusion transfer materials. Both materials have speeds fast enough for enlarging purposes and can be exposed to tungsten light. However, to satisfy the suggestors requirement, the [redacted] material has definite advantages over Bimat. The Bimat material requires presoaking of the transfer material. The [redacted] does not and therefore requires a less complicated system for handling and storage. The speed of the [redacted] process is faster than Bimat. The entire [redacted] process from exposure to a finished positive requires approximately 20-25 seconds. The equivalent Bimat time would be in excess of 1 minute. As for equipment, results of the investigation indicated that an automated enlarging, reduction camera containing an automatic transport and processing unit for the selected material, requiring minimum amount of handling, would be desirable. No commercial equipment is available that can solve the suggestors requirement and handle the selected material in a completely automated system. However, modification of the commercially available [redacted] "Platemaker" to accommodate the selected material, would be a specific solution to the suggestors requirement. [redacted] is the supplier of [redacted] material. NPIC is involved in several R&D projects with [redacted] and has had beneficial associations with [redacted] in the past. Discussions with [redacted]

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indicate that a modified "Platemaker," with an automated transport and processing section to accommodate the [ ] material could be supplied for approximately (strictly ball-park figure) [ ]. A more accurate figure would accompany a proposal, from [ ] if an invitation for them to propose is appropriate.

It is my opinion that the modification of the [ ] "Platemaker" to accommodate the [ ] material, would be an excellent solution to the requirement as outlined by the suggestor. The results of this investigation have been coordinated with [ ] of Publications Division who concurs that the above system is well correlated to his requirements.

Attached is a viewgraph sample prepared from [ ] material. The device in the picture is one model of several commercially available [ ] "Platemakers."

[ ]  
Support Systems Section

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	Chief, Development Branch	9/29	F
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<input type="checkbox"/> Take action	<input checked="" type="checkbox"/> File
<input type="checkbox"/> Approval/Signature	<input type="checkbox"/> Forward
<input type="checkbox"/> Return to:	<input type="checkbox"/> Retention
<input type="checkbox"/> See me about this	<input type="checkbox"/> Prepare answer
<input type="checkbox"/> Read and pass on	<input type="checkbox"/> See:
<input checked="" type="checkbox"/> For your information	<input type="checkbox"/> Type: (Smooth)
	(Rough)

COMMENTS:

Well done, fact-filled response - except for paragraphing this should be a model for  
 PSK responses - Good work. *[Signature]*